BREYDO, I.S., kandidat meditsinskikh nauk (Leningrad, 7-ya Sovetskaya ul., d.7, kv.7); TSIVIN, S.S.

Acute appendicitis and extrauterine pregnancy; differential diagnosis. Vest.khir. 77 no.8:90-95 Ag '56. (MIRA 9:10)

1. Iz kliniki obshchey khirurgii (zav. - prof. V.I.Kolesov) 1-go Leningradskogo meditsinskogo instituta im. I.P.Pavlova (na baze bol'nitsy im. K.Marksa)

(APPENDICITIS, differ. diag.
extrauterine pregn.)
(PREGNANCY, ECTOPIC, differ. diag.
appendicitis)

TSIVNEV, KH.

"Computing the Capacity of a Cupola Furnace", P. 32., (TEKHKA PROMISHLENOST, Vol. 3, No. 4, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

TSIVNEV, Kh.

Charts for boring, milling, and transverse planing machines.
(TEZHKA PROMISHLENOST. Vol. 4, No. 3, 1955)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9,
Sept. 1955, Uncl.

TSIVNEV, Kh.

Charts for boring, milling, and transverse planing machines.
(TEZHKA PROMISHLENOST. Vol. 4, No. 4, 1955)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.

TSIVNEV, KH.

TSIVNEV, KH. Production of high-quality cast iron with a definite structure. p.23.

Vol. 5, no. 2, 1956, TEZHKA PROMISHLENOST, SOFIYA, BULGARIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956.

TSIVTSIVADZE, M. I.

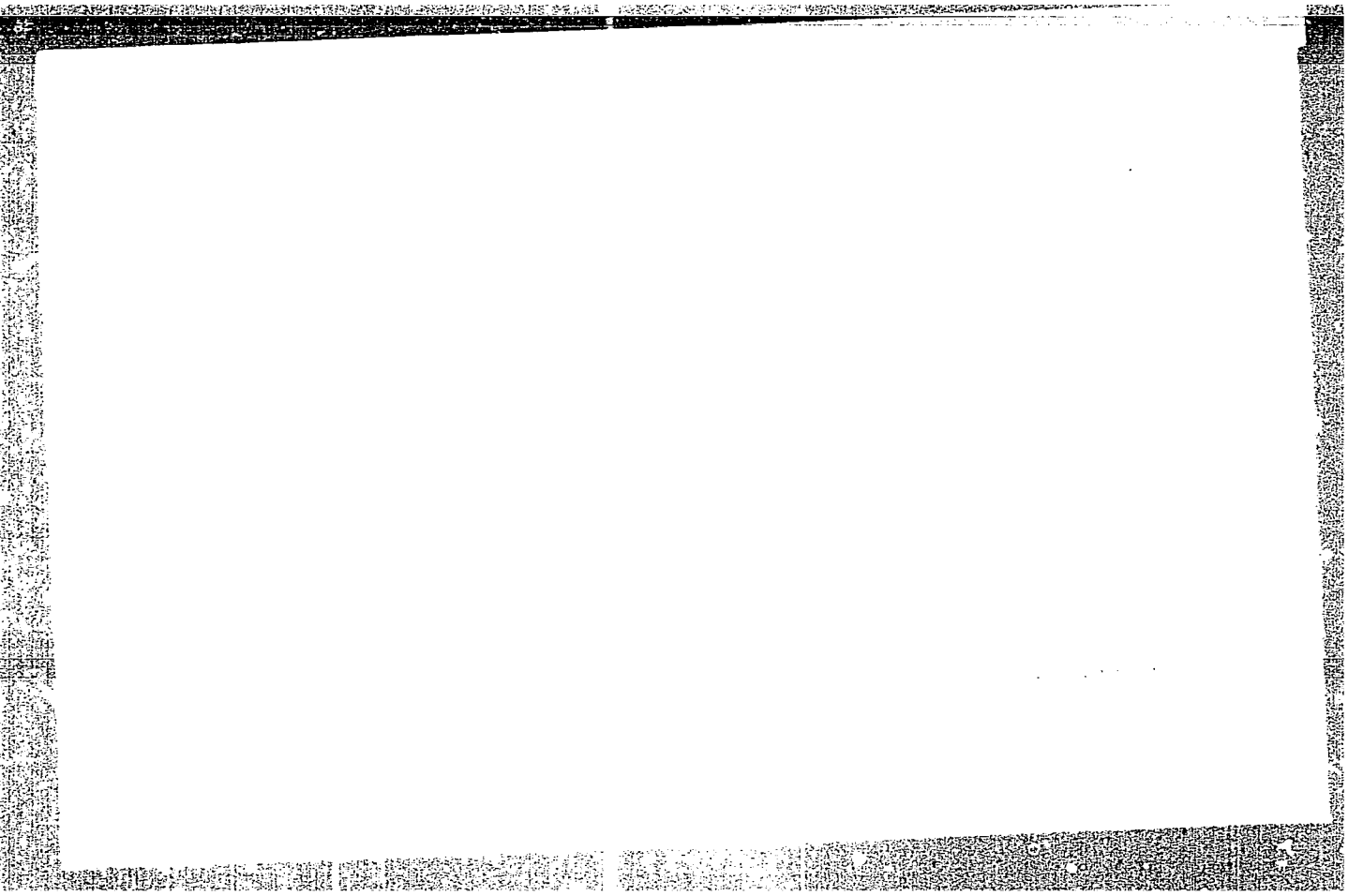
"Quince Cultivation in Imereti." Cand Agr Sci, Georgian Agricultural Inst, Tbilisi, 1953. (RZhBiol, No 1, Sep 54)

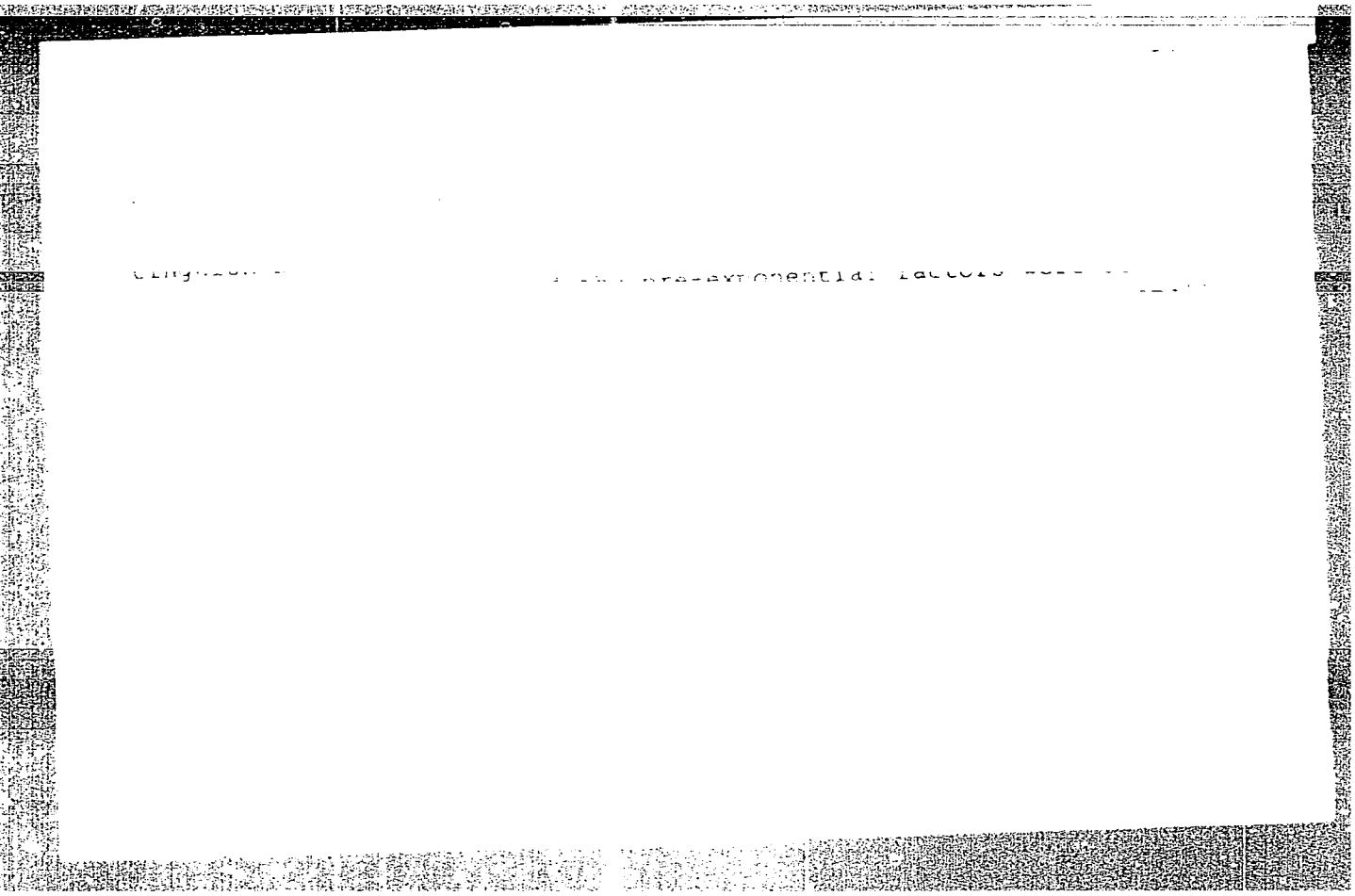
SO: Sum 432, 29 Mar 55

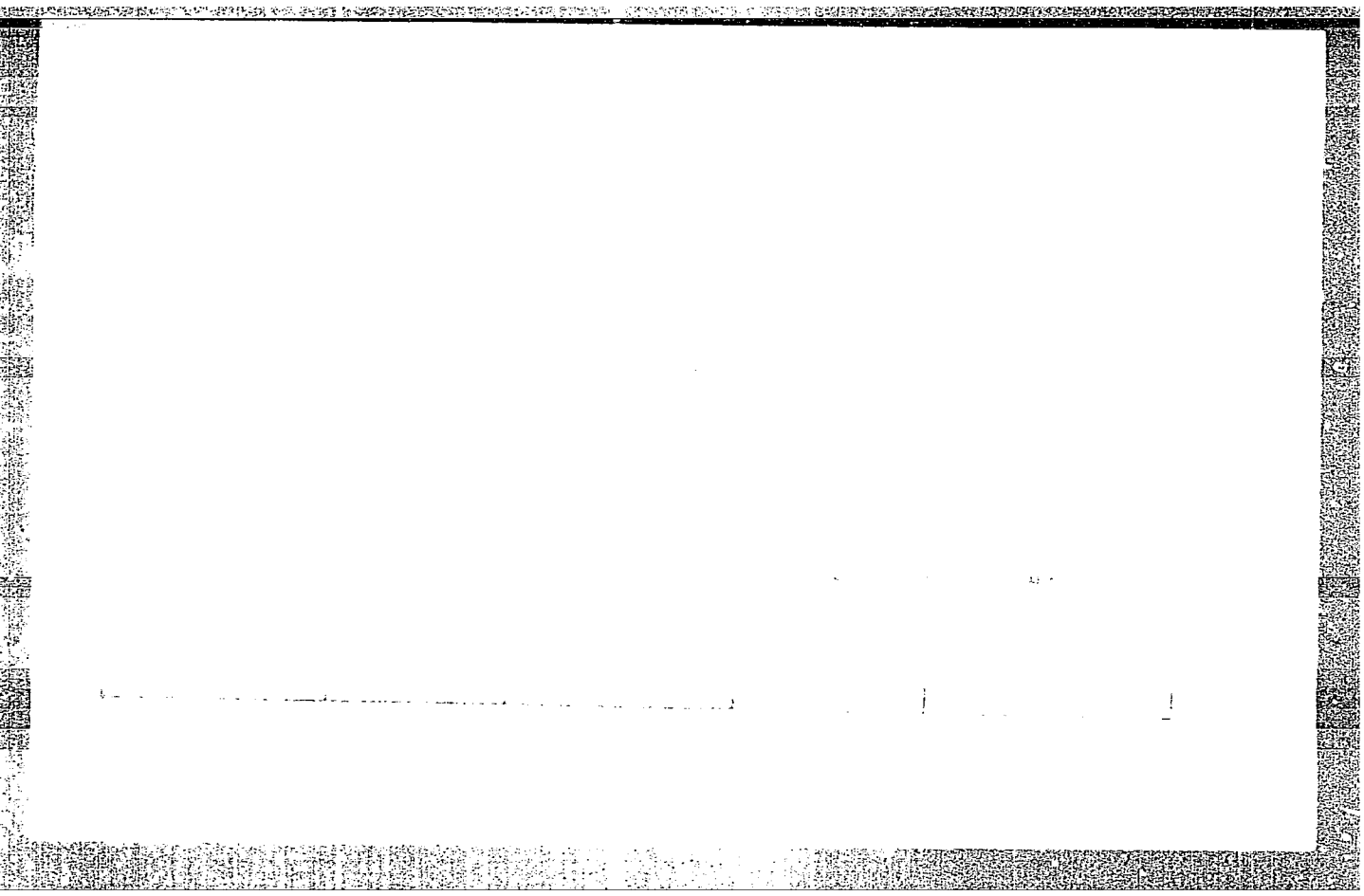
SANADZE, V.V.; TSIVTSIVADZE, T.A.

Effect of small concentrations of titanium on the self-diffusion of iron. Fiz. met. i metalloved. 14 no.1:135-137 Jl '62. (MIRA 15:7)

1. Gruzinskiy politekhnicheskiy institut.
(Iron-titanium alloys—Metallography)







APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120014-3"

S/139/62/000/006/007/032
E021/E151

AUTHORS: Sanadze, V.V., Tsivtsivadze, T.A., and Tatrishvili, K.G.

TITLE: Influence of small concentrations of zirconium, niobium and molybdenum on the self-diffusion of iron

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no.6, 1962, 38-43

TEXT: Alloys were prepared in a high frequency furnace in a vacuum of 10^{-3} mm Hg. The starting materials were Armco iron, chemically pure niobium and zirconium and 99.5% pure molybdenum. Additions of 0.09-1.2% zirconium, 0.09-1.15% niobium and 0.14-1.1% molybdenum were used. The cast billets were forged and homogenised at 1150 °C for 50 hours. Specimens 5 x 5 x 25 mm were prepared and a 2 - 3 μ radioactive layer of Fe^{59} was deposited on them. Diffusion was produced at 900-1300 °C in vacuo. The coefficient of self-diffusion was measured by removing thin layers from the samples and measuring the residual radioactivity of the layer. Graphs of log. activity (ΔI) against the thickness of the layer removed (x) were drawn. For the alloy containing 0.53% niobium at

Card 1/3

1000 °C there was a linear relationship between log. ΔI and x which indicated that intercrystalline self-diffusion had a predominating influence. At 1250 °C there was a linear relation between log. ΔI and x^2 which indicated predominance of trans-crystalline diffusion. Alloys with zirconium gave similar results. Alloys with molybdenum showed a linear relationship between log. ΔI and x^2 at 900 °C as well as higher temperatures, indicating volume diffusion. The energy of activation Q and the exponential constant D_o were determined from the temperature-coefficient of self-diffusion. In the case of Fe-Zr alloys, Q for volume self-diffusion increased from 69 to 76.5, and Q for intercrystalline diffusion from 31.8 to 34.1 kcal/g atom with increase in zirconium content from 0.09 to 1.19 wt.%. In Fe-Nb alloys, Q increased from 72.6 to 84.6 for volume diffusion and from 30.00 to 41.00 for intercrystalline diffusion with increase in niobium content from 0.09 to 1.15 wt.%. In Fe-Mo alloys, Q increased from 49.84 to 60.56 for volume diffusion, and from 37.04 to 40.29 for intercrystalline diffusion with increase in Mo content from 0.14 to 0.34 wt.%. With further increase to 1.10 wt.% Mo,

Q decreased to 40.34 and 30.49 for volume and intercrystalline diffusion respectively.
There are 8 figures and 2 tables.

ASSOCIATION: Gruzinskiy politekhnicheskiy institut imeni V.I. Lenina
(Georgian Polytechnical Institute imeni V.I. Lenin)

SUBMITTED: May 27, 1961, and after revision,
March 8, 1962.

Card 3/3

TSIVTSIVADZE, T.A.

Category : USSR/Solid State Physics - Diffusion. Sintering E-6

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3885

Author : Sanadze, V.V., Tsivtsivadze, T.A.
Title : Effect of Small Concentrations of Alloying Elements on the Self Diffusion of Iron. II. Effect of Concentration of Vanadium.

Orig Pub : Tr. Gruz. politekhn. in-ta, 1956, No 1, (42), 141-144

Abstract : The temperature dependence of the coefficient of self-diffusion was studied in Fe-V alloys with 0.09, 0.242, and 0.4% vanadium by weight at 1050, 1100, and 1150°; the energy of activation of γ-iron was calculated. Alloying of iron with vanadium, even in insignificant amounts, reduces the energy of activation of self-diffusion and consequently, weakens the bonds in the crystalline lattice of the alloys. For part I see Referat. Zh. Fizika, 1956, 13479.

Card : 1/1

TSIVTSIVADZE, I. I.

"Effect of the Partial Removal of Blood During the Life Span on the Fattening of Steers." Thesis for degree of Cand. Agricultural Sci. Sub. 24 Jun 49, Moscow Veterinary Academy.

Summary 32, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vecherniyaya Moskva. Jan-Dec 1949.

TSIVUNIN, V.S.; KAMAY, Gil'm; MAKEYEVA, G.K.

Derivatives of ethyl-α-chlorovinyl- and ethyl-β-chlorovinylphosphonic acids. Dokl. AN SSSR 135 no.5:1157-1159 D '60. (MIRA 13:12)

1. Kazanskiy khimiko-tekhnologicheskiy institut im. S.M.Kirova. Predstavleno akademikom A.Ye.Arbuzovym.
(Phosphonic acid)

TSIVUNIN, V.S.; KAMAY, Gil'm; SHAGIDULLIN, R.R.; KHISAMUTDINOVA, R.Sh.

Condensation reaction of diethyl(diphenyl)-chlorophosphine with α,β-dichloroethyl alkyl ethers. Zhur. ob. khim. 35 no.10:1811-1814 O '65. (MIRA 18:10)

TSIVUNIN, V.S.; KAMAY, Gil'm; KHISAMUTDINOVA, R.Sh.

Syntheeis of thioöxides of diethyl (diphenyl)-α-(alkoxy)-ethylphosphines, α-(alkoxy)vinylphosphines, and α-(vinoxy) ethylphosphines. Zhur. ob. khim. 35 no.10:1815-1817 O '65. (MIRA 18:10)

KAMAY, Gil'm; TSIVUNIN, V.S.; NURTDINOV, S.Kh.

Preparation of β,β-dimethylvinylphosphinyl dichloride and some of its derivatives. Zhur. ob. khim. 35 no.10:1817-1819 O '65. (MIRA 18:10)

TSIVUNIN, V.S.; KAMAY, G.Kh.; KORMACHEV, V.V.

Aliphatic-aromatic oxides and phosphine monosulfides. Zhur. ob. khim. 35 no.10:1819-1821 O '65. (MIRA 18:10)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M. Kirova.

L 3396-66 EWT(m)/EPF(c)/EWP(j)/T/ETC(m) WW/RM

ACCESSION NR: AP5024219 UR/0020/65/164/003/0594/0597

AUTHORS: Tsivunin, V. S.; Kamay, G.; Khisamutdinova, R. Sh.

TITLE: On the complex formation of simple vinyl ethers with pentavalent phosphorus chlorides

SOURCE: AN SSSR. Doklady, v. 164, no. 3, 1965, 594-597

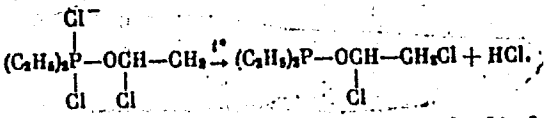
TOPIC TAGS: complex formation, vinyl ether, phosphorus pentachloride, phosphorus organic compound

ABSTRACT: The complexes formed during the reaction of simple vinyl ethers with pentavalent phosphorus chlorides were studied. In particular, the nature of the thermal degradation products of the complexes studied was determined. It was found that thermal degradation of the PCl_5 · vinyl ether complex yielded different products than the degradation of diethyl- and diphenyltrichlorophosphorus·vinyl ether complexes. The behavior of the diethyltrichlorophosphorus· n-butylvinyl-ether complex, formed according to the scheme

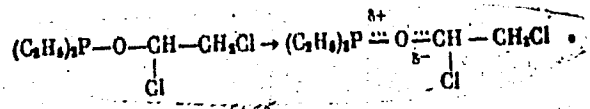
$$(C_2H_5)_2PCl_3 + CH_2{=}CH{-}OC_4H_9 \rightarrow (C_2H_5)_2\overset{Cl}{\underset{Cl}{P}}{-}O\overset{Cl}{C}H{-}CH_3 + (C_4H_8)_n,$$

Card 1/3

is discussed in some detail. The thermal degradation of this complex is assumed to follow the scheme



The different behavior of phosphorus pentachloride and alkyl or aryl substituted pentavalent phosphorus chloride-vinylether complexes during thermal degradation is attributed to the different utilization of the d orbitals of phosphorus in the formation of the above complexes. IR spectra of diethyl-α-chloroethoxydichloro-phosphorus, the acid chloride of diethylphosphinic acid, and α, β-dichloroethyl ether of diethylphosphinic acid were determined and are shown graphically. The existence of the last ether is attributed to the presence of the stabilizing structure:



The authors thank R. R. Shagidullin for the determination of the IR spectra.
Orig. art. has: 1 graph and 10 equations.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova (Kazan' Chemical Engineering Institute)

L 3396-66

ACCESSION NR: AP5024219

SUBMITTED: 28Dec64 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 004 OTHER: 002

Card 3/3 hdc

ACC NR: AP6028899 SOURCE CODE: UR/0079/66/036/008/1430/1433

AUTHOR: Tsivunin, V. S.; Kamay, G. Kh.; Kormachev, V. V.; Ukader, G. S.

ORG: Kazan Chemical Technology Institute im. S. M. Kirov (Kazanskiy khimiko-tekhnologicheskiy institut)

TITLE: Reactions of dialkylchlorophosphine with dibromoalkanes and bis(chloromethyl) ester

SOURCE: Zhurnal obshchey khimii, v. 36, no. 8, 1966, 1430-1433

TOPIC TAGS: brominated organic compound, dialkylchlorophosphine, dibromoalkane, alkyldiphosphine dithioxide, chlorinated organic compound, organic phosphorus compound, alkylphosphine, alkane,

ABSTRACT: The addition of $(C_2H_5)_2PCl$ to 1,2-dibromethane, 1,3-dibromopropane, and bis(chloromethyl) ether was studied under various conditions and with various reagent ratios. It is shown that on boiling (on a water bath), dibromoethane and bis(chloromethyl) ether add mainly two molecules of $(C_2H_5)_2PCl$ to form the corresponding adducts. At 100—129°C, 1,3-dibromopropane adds one or two molecules of $(C_2H_5)_2PCl$ to form the corresponding mono- or diadducts. Decomposition of the adducts with alcohols, water, or H_2S yielded the coresponding compounds Ia (bp 180°C, d_4^{20} 1.1164, n_D^{20} 1.4919), Ib (bp 199—200°C),

UDC: 546.181.1+547.412

Card 1/2

ACC NR: AP6028899

IIa (mp 125—126°C), IIb (mp 8615°C), IIIa (mp 127—128°C), IIIb (mp 81.50°C), IV (bp 153—154°C), and V (bp 91—92°C).

[WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 06Sep65/ ORIG REF: 003/ OTH REF: 001/

Card 2/2

L 27763-66 EWT(m)/EWP(j) RM

ACC NR: AP6018505 SOURCE CODE: UR/0079/65/035/011/1998/2001

AUTHOR: Tsivunin, V. S.; Kamay, G.; Shagidullin, R. R.; Khisamutdinova, R. Sh. 27 B

ORG: none

TITLE: Condensation of diethyl- and diphenylchlorophosphine with alpha-chloroaldehydes

SOURCE: Zhurnal obshchey khimii, v. 35, no. 11, 1965, 1998-2001

TOPIC TAGS: condensation reaction, aldehyde, chlorinated organic compound, organic phosphorus compound

ABSTRACT: Diethyl(and diphenyl)chlorophosphines were found to form complexes with alpha-chloroaldehydes. The reaction proceeded exothermally when the components were mixed in bulk or in an inert solvent (diethyl ether). Oxides and thiooxides of diethyl(diphenyl)-alpha-hydroxy-beta-chloro-(beta,beta,beta-trichloro)-ethylphosphines were isolated by decomposing the complexes with alcohols or hydrogen sulfide, respectively. The condensation of secondary chlorophosphines with chloro-aldehydes, followed by nucleophilic decomposition of the complexes with water or alcohols is recommended as a new, comparatively simple method of producing oxides of dialkyl(or diaryl)-alpha-hydroxyethylphosphines. Orig. art. has:1 figure and 6 formulas. [JPRS]

SUB CODE: 07/ SUBM DATE: 17Dec64 / ORIG REF: 004/ OTH REF: 002

Card 1/1 UDC: 546.185/547.446.1:541.49

L 31277-66 EWT(m)/EWP(j) RM

ACC NR: AP6022795 SOURCE CODE: UR/0079/66/036/002/0271/0273

AUTHOR: Tsivunin, V. S.; Kamay, G. Kh.; Kormachev, V. V.

ORG: Kazan' Chemicotechnological Institute im. S. M. Kirov (Kazanskiy khimiko-tekhnologicheskiy institut)

TITLE: Reaction of secondary chlorophosphines with chloromethylalkyl sulfides

SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 271-273

TOPIC TAGS: chlorinated organic compound, organic phosphorus compound, organic sulfur compound, chemical decomposition, organic oxide, chemical synthesis

ABSTRACT: Diethylchlorophosphine and diphenylchlorophosphine react with chloromethylalkyl sulfides to form diethyl(diphenyl)mercaptoalkylmethyldichlorophosphines. Decomposition of the complexes with water, alcohols, or hydrogen sulfide yielded the corresponding phosphine oxides and thioxides. Five oxides and five thioxides were synthesized and characterized. Orig. art. has: 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 22Feb65 / ORIG REF: 002

Card 1/1 UDC: 546.181.1 + 547.279.1

ACC NR: AP6033178 SOURCE CODE: UR/0079/66/036/010/1827/1830

AUTHOR: Tsivunin, V. S.; Kamay, G. Kh.; Nurtdinov, S. Kh.

ORG: none

TITLE: Reactions of diethylchlorophosphine with derivatives of α,β-unsaturated acids

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1827-1830

TOPIC TAGS: alkylphosphinylpropionic acid ester, ~~alkylchlorophosphinyl-propionic acid ester~~ acrylic acid, methacrylic acid, organic phosphorus compound

ABSTRACT: Diethylchlorophosphine reacts with unsaturated acids (crotonic, acrylic, and methacrylic) and their chlorides in heptane at -15 to -20°C to form the corresponding adducts. Decomposition with alcohols of the adducts from crotonic acid (or its chloride) and diethylchlorophosphine at 60—70°C gave the corresponding esters shown in Table 1.

Card 1/4 UDC: 546.181.1+547.39:547.393.3

ACC NR: AP6033178

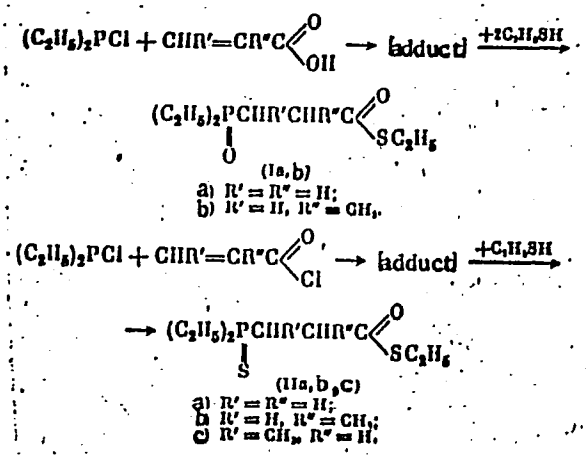
Table 1. Esters of β-methyl-β-diethylphosphenyl-propionic acid

$(C_2H_5)_2PCHCH_2C(=O)OR$
$\|$
$O\ CH_3$

Compound no.	R	Yield (in %)	bp (p in mm)	d_4^{20}	n_D^{20}	MR Found	MR Calc'd	Found % P	Formula	Calc'd % P
I	CH_3	48	144—146° (2)	1.0740	1.4721	53.80	54.04	14.84, 15.85	$C_9H_{19}O_3P$	15.02
II	C_2H_5	41	158—159 (4)	1.0480	1.4698	58.60	58.65	13.49, 13.70	$C_{10}H_{21}O_3P$	14.07
III	C_3H_7	54	163—165 (3)	1.0280	1.4685	63.27	63.27	13.60, 13.75	$C_{11}H_{23}O_3P$	13.22
IV	C_4H_9	54	182—184 (4.5)	1.0160	1.4650	67.51	67.89	12.17, 12.87	$C_{12}H_{25}O_3P$	12.47
V	C_5H_{11}	48	188—190 (5)	1.0120	1.4630	72.44	72.51	11.90, 11.67	$C_{13}H_{27}O_3P$	11.89

Decomposition of the adducts with ethylmercaptan proceeds in two ways:

Card 2/4



$$(C_2H_5)_2PCl + CHR'{=}CR''C(=O)OH \rightarrow [\text{adduct}] \xrightarrow{+2C_2H_5SH}$$

$$(C_2H_5)_2P(=O)CHR'CHR''C(=O)SC_2H_5 \qquad (1)$$

(Ia, b)
a) $R' = R'' = H$;
b) $R' = H$, $R'' = CH_3$.

$$(C_2H_5)_2PCl + CHR'{=}CR''C(=O)Cl \rightarrow [\text{adduct}] \xrightarrow{+C_2H_5SH}$$

$$\rightarrow (C_2H_5)_2P(=S)CHR'CHR''C(=O)SC_2H_5 \qquad (2)$$

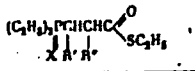
(IIa, b, c)
a) $R' = R'' = H$;
b) $R' = H$, $R'' = CH_3$;
c) $R' = CH_3$, $R'' = H$.

to form Ia and Ib or IIa, IIb, and IIc, which are given in Table 2. Orig. art. has: 2 tables. [W.A. 50]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120014-3"

ACC NR: AP6033178

Table 2. Ethyl esters of β-diethylphosphinyl(Ia,Ib) and β-diethylthiophosphinylpropionic acids



Compound No.	X	R'	R"	Yield (in %)	bp (p in mm)	d_4^{20}	n_D^{20}	MR_D Found	MR_D Calc'd	Found % P	Found % S	Formula	Calc'd % P	Calc'd % S
Ia	O	H	H	48	170°(3.5)	1.1030	1.5106	60.38	60.40	14.40	14.71	$C_8H_{19}O_2PS$	13.94	14.41
Ib	O	H	CH_3	52	159—161(1.5)	1.0750	1.5020	64.98	65.02	13.50	14.00	$C_9H_{21}O_2PS$	13.11	13.57
IIa	S	H	H	64	172—173(3)	1.0930	1.5458	69.01	68.72	13.39	27.50	$C_8H_{19}OPS_2$	12.99	28.90
IIb	S	H	CH_3	50	165—166(1)	1.0710	1.5382	73.59	73.34	12.00	24.74	$C_9H_{21}OPS_2$	12.26	25.43
IIc	S	CH_3	H	55	170—172(2)	1.0780	1.5438	73.75	73.34	12.50	25.04	$C_9H_{21}OPS_2$	12.26	25.43

SUB CODE: 07/ SUBM DATE: 160ct65/ ORIG REF: 002

Card 4/4

L 11392-67 EWT(m)/EWP(j) RM SOURCE CODE: UR/0079/66/036/008/1424/1430

ACC NR: AP7003655

33

AUTHOR: Tsivunin, V. S. Fridland, S. V.; Zykova, T. V.; Kamay, G. Kh.

ORG: Kazan' Chemicotechnological Institute im. S. M. Kirov (Kazanskiy khimiko-tekhnologicheskiy institut)

TITLE: Reaction of phosphorus pentachloride with divinyl ether

SOURCE: Zhurnal obshchey khimii v. 36, no. 8, 1966, 1424-1430

TOPIC TAGS: phosphorus chloride, vinyl compound, ester, organic phosphorus compound, NMR spectrum

ABSTRACT: 2,2,2-Trichloro-1-oxa-2-phospholeno-3-methyleno-5 was isolated by the reaction of phosphorus pentachloride with divinyl ether, identified by a study of its infrared spectrum and reactions with acetic acid, acetic anhydride, ethyl acetate, and bromine, heating at 160-165°, and a study of the proton magnetic resonance and double nuclear-nuclear resonance spectra. Treatment of the compound synthesized with nucleophilic agents yielded 2-chloro-1-oxa-2-phospholene-3-methylene-5-oxide-2, further reactions of which yielded a series of derivatives with an oxaphospholene ring. The structures of 2-chloro-1-oxa-2-phospholene-3-methylene-5-oxide-2 and 2-isobutoxy-1-oxa-2-phospholene-3-methylene-5-oxide-2 were studied by the nuclear magnetic resonance and double nuclear-nuclear magnetic resonance methods. The participation of the oxygen atom in the original reaction of PCl_5 with divinyl ether, was confirmed. Orig. art. has: 2 figures and 1 table. [JPRS: 38,970]

SUB CODE: 07 / SUBM DATE: 10Jul65 / ORIG REF: 004 / OTH REF: 001

UDC: 547.37 + 547.3 + 1.2 + 546.185'131

Card 1/1 jb

0426 0277

TSIVUNIN, V. S.

43

PHASE I BOOK EXPLOITATION SOV/6034

Konferentsiya po khimii i primeneniyu fosfororganicheskikh soyedineniy. 2d, Kazan', 1959.

Khimiya i primeneniye fosfororganicheskikh soyedineniy; trudy (Chemistry and Use of Organophosphorus Compounds; Conference Transactions) Moscow, Izd-vo AN SSSR, 1962. 630 p. Errata slip inserted. 2800 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Kazanskiy filial.

Resp. Ed.: A. Ye. Arbuzov, Academician; Ed. of Publishing House: L. S. Povarov; Tech. Ed.: S. G. Tikhomirova.

PURPOSE: This collection of conference transactions is intended for chemists, process engineers, physiologists, pharmacists, physicians, veterinarians, and agricultural scientists.

COVERAGE: The transactions include the full texts of most of the scientific papers presented at the Second Conference on the Chemistry and Use of

Card 1/14

Chemistry and the Use of Organophosphorus (Cont.) SOV/6034

Organophosphorus Compounds held at Kazan' from 2 Nov through 1 Dec 1959. The material is divided into three sections: Chemistry, containing 67 articles; Physiological Activity of Organophosphorus Compounds, containing 26 articles; and Plant Protection, containing 12 articles. The reports reflect the strong interest of Soviet scientists in the chemistry and application of organophosphorus compounds. References accompany individual reports. Short summaries of some of the listed reports have been made and are given below.

TABLE OF CONTENTS:[Abridged]:

SOV/20-128-3-30/58

5(2,3)

AUTHORS: Kamay, G., Tsivunin, V. S.

TITLE: Some Esters of Ethyl-vinyl and Ethyl-allyl Phosphinic Acids

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 543-546 (USSR)

ABSTRACT: The present paper continues the investigations carried out since 1948 in the authors' laboratory concerning the synthesis and polymerization of the unsaturated esters of phosphoric acids. The synthesis of the esters mentioned in the title was carried out in several stages (see Diagram). The interaction of ethyl-dichlorophosphine (Ref 6) with ethylene oxide easily proceeds in the medium of absolute ethyl ether. According to the number of ethylene-oxide molecules involved in the reaction, an acid chloride of β-chloro-ethoxy-ethyl-phosphinous acid, and the di-β-chloro-ethyl ester of ethyl-phosphinous acid are formed. The latter ester is a colorless liquid with a weak phosphine odor. It is stable in distillations, but oxidizes slowly in the air. It reacts violently with sulphur, and under considerable heat formation with cuprous chloride. These two facts suggest the trivalent structure of the phosphorus .

Card 1/3

Some Esters of Ethyl-vinyl and Ethyl-allyl Phosphinic Acids

M. I. Kabachnik and P. A. Rossiyskaya (Ref 7) ascertained that the presence of halogen atoms in the tris-β-chloro-ethyl phosphite at increased temperatures causes an internal regrouping of the ester due to a transition of the phosphorus from the trivalent to the pentavalent structure. As was expected, the isomerization of the di-β-chloro-ethyl ester of ethyl-phosphinous acid to a corresponding ester of ethyl-β-chloro-ethyl-phosphinic acid proceeded easily. Already after heating the ester in boiling ethyl benzene (in nitrogen atmosphere under intensive stirring) for 1 hour, the ester of the trivalent phosphorus compound disappeared: it was isomerized almost completely. The esters mentioned in the title were obtained by an interaction of the acid chloride with corresponding alcohols in the medium of absolute ether in the presence of pyridine. They are colorless, easily movable liquids (except for β-chloro-ethyl ester), mixible with water, and have a weak, but agreeable fruit odor. Their constants are shown in table 2. The esters of ethyl-allyl-phosphinic acid were obtained by Arbuzov's regrouping of corresponding esters of ethyl-phosphinous acid (Refs 8, 9) by allyl bromide. All

Some Esters of Ethyl-vinyl and Ethyl-allyl Phosphinic Acids

esters of this acid are colorless, easily movable liquids with a weak, but somewhat sharp odor. They are easily mixible with water at room temperature (except for isoamyl ester). Their constants are shown in table 2 (Abstracter's note: misprint, the said constants are shown in the 2nd part of table 1). The authors carried out preliminary polymerization experiments with both types of ester. The results are given in brief. There are 1 table and 9 references, 7 of which are Soviet.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova (Kazan' Institute of Chemical Technology imeni S. M. Kirov)

PRESENTED: May 25, 1959, by A. Ye. Arbuzov, Academician

86839

S/020/60/135/005/029/043
B016/B052

5.3630 2209, 1266, 1287

AUTHORS: Tsivunin, V. S., Gil'm Kamay, and Makeyeva, G. K.

TITLE: Derivatives of Ethyl-α-chloro-vinyl and Ethyl-β-chloro-vinyl Phosphinic Acids

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 5, pp. 1157-1159

TEXT: The authors report on the determination of the structure of acid chlorides of ethyl-α,β-dihalogen ethyl phosphinic acids. For this purpose they ozonized propyl and isobutyl esters of ethylchloro-vinyl phosphinic acid, and identified the decomposition products by means of dimedone. In both cases, a crystalline product was isolated, which corresponded to the condensation product of dimedone with formaldehyde (melting point, 189,5°C). The authors therefore believed that the halogen in the vinyl radical has an α-position. So far, this has not been proved. The results showed that acid chlorides of ethyl-α-halogen vinyl phosphinic acids are formed by thermal or catalytic dehydrohalogenation of the above-mentioned acid chlorides. The authors also synthesized derivatives of ethyl-β-

Card 1/3

Derivatives of Ethyl-α-chloro-vinyl and Ethyl-β-chloro-vinyl Phosphinic Acids

S/020/60/135/005/029/043
B016/B052

halogen vinyl phosphinic acids and compared their physical constants and properties with those of the known derivatives of acid whose halogen is bound to the carbon atom. Contrary to their expectations (according to data by K. N. Anisimov and A. N. Nesmeyanov, Ref. 3), the suspension of ethyl tetrachlorophosphine disappeared from its reaction mixture with butyl-vinyl ether the more quickly, the larger the addition of vinyl ether. It completely dissolved as soon as the reagents reached an equimolar ratio. By distillation (after the reaction medium - absolute benzene - had been distilled off) and treatment in a vacuum, the authors obtained also a fraction corresponding to the acid chloride of ethyl chloro-vinyl phosphinic acid. It was a yellowish, mobile liquid with a somewhat strong smell which fumed when exposed to air, and was decomposed by water. When added to bromine or its solution in chloroform, it showed no visible reaction, although after a few days bromine was decolorized. A product identical with these acids was obtained by reaction of ethyl tetrachlorophosphine with vinyl isopropyl ether. In the presence of pyridine, the ethyl ester of ethyl-β-chlorovinyl phosphinic acid was formed by reaction of the product obtained with ethanol in absolute diethyl ether. From their results and the infrared spectra the authors concluded that the reaction

Derivatives of Ethyl-α-chloro-vinyl and Ethyl-β-chloro-vinyl Phosphinic Acids

S/020/60/135/005/029/043
B016/B052

of vinyl ether with ethyl tetrachlorophosphine differs considerably from that with phosphorus pentachloride (Ref. 3). In this case, the acid chloride of ethyl-β-chloro-vinyl phosphinic acid is formed according to the following scheme: $CH_2=CHOR+C_2H_5PCl_4 \longrightarrow C_2H_5P(O)(CH=CHCl)Cl + RCl+HCl$. Examinations of the above-mentioned reaction are being continued. R. V. Lindval' and N. V. Oslina are thanked for spectral analyses. M. I. Kabachnik and T. Ya. Medved' are mentioned. There are 4 Soviet references.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova (Kazan' Institute of Chemical Technology imeni S. M. Kirov)

PRESENTED: July 7, 1960, by A. Ye. Arbuzov, Academician

SUBMITTED: July 4, 1960

Card 3/3

Khimiya i Primeneniye Fosforoorganicheskikh Soyedinenii (Chemistry and Application of Organophosphorus Compounds) A. Ye. Arbuzov, Ed. publ. by Kazan' Affil, Acad. Sci. USSR, Moscow, 1962 638pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.

26199
S/081/61/000/012/028/028
B103/B202

15-8110

AUTHORS: Abramov, V. S., Tsivunin, V. S.

TITLE: Esters of vinyl phosphinic acid and their polymerizability

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 12, 1961, 715, abstract 12P140. (Tr. Kazansk. khim.-tekhnol. in-ta, 1959, vyp. 26, 96-103)

TEXT: The authors synthesized isobutyl ester of β-bromo ethyl phosphinic and vinyl phosphinic acid. In the polymerization of the diisobutyl ester of vinyl phosphinic acid (I) a viscous colorless compound with low degree of polymerization is formed in the mass (initiator - benzoyl diazoperoxide or paraphon, temperature 80-90°C). In the block copolymerization of I with styrene or methyl methacrylate (temperature 6 and 90°C, respectively, initiator - benzoyl peroxide) solid or rubber-like products are formed with low combustibility and self-extinguishability. The following formulas of the copolymers (I) and (II) are suggested:

$$\{[-CH(C_6H_5)CH_2-]_{63}CH_2CH(R)-\} \quad I,$$

Card 1/2

Esters of vinyl phosphinic acid ...

$$\{[- CH_2C(CH_3)(COOCH_3)-]_{28}CH_2CH(R)-\} \quad II,$$

$$\{[- CH(C_6H_5)CH_2-]_{25}CH(R)CH_2-\} \quad III.$$

A thermoplastic copolymer (in the form of latex) corresponding to formula (III) where R $(iso\text{-}C_4H_9O)_2P{=}O$ was obtained in the emulsion polymerization of (I) with styrene (20-100°C, 20 hr, initiator: paraphon). [Abstracter's note: Complete translation.]

Card 2/2

B12

L 17231-63 EWP(j)/EPF(c)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WW
ACCESSION NR: AP3004286 S/0079/63/033/007/2146/2149

AUTHORS: Tsivunin, V. S.; Kamay, Gil'm; Fridland, S. V.

TITLE: Derivatives of Beta-chloroethoxyvinyl phosphonic acid

SOURCE: Zhurnal obshchey khimii, v. 33, no. 7, 1963, 2146-2149

TOPIC TAGS: chloroethyl, vinyl, ether, phosphorus pentachloride, phosphonic acid chloride, ester, polymer, phosphonic acid

ABSTRACT: The reaction of Beta-chloroethoxyvinyl with two moles of phosphorus pentachloride followed by decomposition of the resulting complex with sulfer dioxide gave chloroethoxyvinylphosphonic acid dichloride in 46.5% yield when a catalytic amount of iodine was added in the first step. Eight esters were prepared from the acid chloride and alcohols in the presence of pyridine. The dimethyl and diethyl esters were dehydrochlorinated with alkali to esters of vinyloxyvinylphosphonic acid. The diethyl ester of this acid and the dialkyl ester of chloroethoxyvinylphosphonic acid polymerized under the influence of benzoyl peroxide. Orig. art. has: 2 tables.

ASSOCIATION: none

Card 1/2

L 1[illegible]2-63 EWP(j)/EPF(c)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WW

ACCESSION NR: AP3004287 S/0079/63/033/007/2149/2153

AUTHORS: Tsivunin, V. S.; Kamay, Gil'm; Sultanova, D B. 67 66

TITLE: Reaction of ethyltetrachlorophosphine with simple vinyl ethers

SOURCE: Zhurnal obshchey khimii, v. 33, no. 7, 1963, 2149-2153

TOPIC TAGS: ethyltetrachlorophosphine, phosphine, chloroethyl vinyl ether, vinyl, ether, phosphic acid, phosphonic acid chloride, adduct

ABSTRACT: In continuation of an earlier study of the reaction of butyl- and isopropylvinyl ethers with ethyltetrachlorophosphine, the present work concerns the reaction of β-chloroethylvinyl and butyl-vinyl ethers with the same phosphine. Decomposition of the resulting complexes with sulfur dioxide gave the chlorides of ethylbutoxy-vinyl- and ethyl-β-chlorovinylphosphic acid chloride. The mechanism for the thermal decomposition of the complex was confirmed by the isolation of dichloroethane from the adduct of β-chloroethylvinyl ether. Orig. art. has: no figures, formulas, or tables.

ASSOCIATION: Kazan Chemical Engineering Institute.

Card 1/2

LEBEDEVA, L.V., kand. med. nauk; ROGOVAYA, V.F.; KHOLINA, V.M.; VLASOVA, N.A.; TSIV'YAN, L.S.

Significance of chemoprophylaxis and its methodology in the treatment of children with the first signs of positive tuberculin test. Prob. tub. no.1:3-8 '65. (MIRA 18:12)

1. Dispansernoye otdeleniye (zav.- kand. med. nauk Ye.A. Ginzburg) Moskovskogo instituta tuberkuleza (dir.- kand. med. nauk T.P. Mochalova, zamestitel' direktora po nauchnoy chasti - prof. D.D. Aseyev) Ministerstva zdravookhraneniya RSFSR i 16-y protivotuberkuleznyy dispanser Moskvy (glavnyy vrach P.A. Zal'munin).

TSIV'YAN, L.Ya.

Free dermatoplasty of the gluteal region under septic conditions following severe pelvic injury. Ortop.,travm.i protez. 20 no.11: 78-80 N '59. (MIRA 13:4)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (direktor - dotsent D.P. Metelkin).
(SKIN TRANSPLANTATION)
(PELVIS wds. & inj.)
(BUTTOCKS surg.)

USSR/Electricity
Motors
Rural Electrification

Jun 49

PA 54/49[illegible]

"A Mobile, Multispeed Electric Drive for Agriculture," Docent L. Ya. Tsiv'yan (deceased), Cand Agr Sci, Moscow Inst of Mechanization and Electrification of Agr imeni Molotov, 3 pp

"Elektrichestvo" No 6

Characteristics of type P-41-6 ("Ural") induction motor developing a power of 2.7 kw at 960 rpm. This motor uses a split stator winding to fulfill the farmer's need for a motor which will service a number of

54/49735

USSR/Electricity (Comtd) Jun 49

machines of different powers. Farmers should be able to use this motor 2,500 hours per year, and thus cut in half the number of motors used.

54/49735

TSIV'YAN L. YA., DOCENT

TSIV'YAN, Ya.L., kandidat meditsinskikh nauk.

Volvulus of the gallbladder. Khirurgiia no.2:76-77 F '54. (MLRA 7:5)

1. Iz khirurgicheskogo otdeleniya (zaveduyushchiy M.M.Sobstel') 4-y gorodskoy klinicheskoy bol'nitsy Novosibirska (glavnyy vrach I.M.Gol'dshteyn).
(Gall bladder--Diseases)

TSIV YA-LL

TSIV'YAN, Ya.L., kandidat meditsinskikh nauk

Case of severe combined trauma in a child. Ortop.travm. i protez. no.3:56-58 My-Je '55. (MLRA 8:10)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta ortopedii i vosstanovitel'noy khirurgii (dir.dotsent D.P.Metelkin) i khirurgicheskogo otdeleniya 4-y gorodskoy klinicheskoy bol'nitsy (glavnyy vrach--K.S.Dement'yev)

(WOUNDS AND INJURIES, abdom. & pelvis, case report)
(ABDOMEN, wounds and injuries, multiple of abdom. & pelvis, case report)
(PELVIS, wounds and injuries, multiple of abdom. & pelvis, case report)

TSIV'YAN, Ya.L., kandidat meditsinskikh nauk.(Novosibirsk)

Injury of a lower abdominal artery from puncture of the abdominal wall in ascites. Klin. med., 33 no.10:81-82 O '55. (MLRA 9:2)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta ortopedii i vosstanovitel'noy khirurgii (dir.--dotsent D.P. Meteklin) i khirurgicheskogo otdeleniya 4-y gorodskoy klinicheskoy bol'nitsy (glavnyy vrach K.A. Dement'yev)

(ABDOMEN, hemorrhage,
caused by inj. of abdom. artery in puncture of abdom. wall for ascites)
(HEMORRHAGE
abdomen, caused by inj. of abdom. artery in puncture for ascites)
(ASCITES, therapy,
puncture of abdom. wall, causing inj. of abdom. aorta)

TSIV'YAN, Ya.L, kandidat meditsinskikh nauk, Novosibirsk, ul. Uritskogo d.25, kv.6.

Fat embolism in intraosseous anesthesia. Vest.khir. 75 no.5:106-107 Je '55. (MLRA 8:10)

1. Iz ogdeleniya ortopedii i travmatologii (zav.-dots. S.I. Kutnovskiy) Novosibirskogo nauchno-issledovatel'skogo instituta ortopedii i vosstanovitel'noy khirurgii.

(ANESTHESIA, LOCAL,
intraosseous, with fat embolism)
(EMBOLISM,
fat, in intraosseous anesth)

TSIV'YAN, Ya.L., starshiy nauchnyy sotrudnik; IVANOV, N.N., starshiy nauchnyy sotrudnik

X-ray contrast prosthesis of the head of the femur, made out of plastic material. Ortop.travm. i protez. 17 no.6:131 N-D '56. (MLRA 10:2)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta ortopedii, travmatologii i vosstanovitel'noy khirurgii (direktor - dotsent D.P.Meteikin)

(PROSTHESIS) (FEMUR--RADIOGRAPHY)

TSIV'YAN, Ya.L., kandidat meditsinskikh nauk

A case of cure in massive combined injuries. Ortop.,travm. i protez. 18 no.2:42-43 Mr-Ap '57. (MLRA 10:8)

1. Iz otdeleniya travmatologii i ortopedii (zav. - prof. S.L.Shneyder) Novosibirskogo nauchno-issledovatel'skogo instituta ortopedii, travmatologii i vosstanovitel'noy khirurgii (dir. - dotsent D.P.Metelkin)
(WOUNDS AND INJURIES, case reports
multiple inj.)

TSIV'YAN, Ya.L., kand.med.nauk

Technique of extra-articular osteosynthesis in fractures of the neck of the femur. Ortop.travm. i protez. 18 no.6:49 N-D '57. (MIRA 11:4)

1. Iz kliniki ortopedii i travmatologii (zav. - dotsent S.I. Kuntovskiy) Novosibirskogo nauchno-issledovatel'skogo instituta ortopedii i vosstanovitel'noy khirurgii (dir. - dotsent D.P. Metelkin)

(FEMUR--SURGERY)

TSIV'YAN, Ya.L., kand.med.nauk

Apparatus for exercise therapy following arthroplasty of the hip joint in case of loss of function of the arms. Ortop.travm. i protez. 20 no.2:43-44 F '59. (MIRA 12:12)

1. Iz Novosibirskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dots. D.P. Metelkin).

(HIP, surg.
arthroplasty, appar. for postop. exercise ther. in loss of arm funct. (Rus))
(EXERCISE THERAPY, appar. & instruments
appar. for exercise after arthroplasty of hip joint in loss of arm funct. (Rus))

TSIV'YAN, Ya.L., starshiy nauchnyy sotrudnik

Alloarthroplasty of the hip joint in clinical practice. Ortop. travm. i protez. 20 no.7:21-28 Jl '59. (MIRA 12:10)

1. Iz otdeleniya travmatologii i ortopedii Novosibirskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent D.P.Metelkin).
(HIP surg.)

TSIV'YAN, Ya. L., Doc Med Sci -- (diss) "Intra-joint prosthesis of the coxofemoral joint in experimentation and in the clinical aspect." Novosibirsk, 1960. 39 pp; (Tomsk State Medical Inst); 250 copies; price not given; list of author's work on pp 37-38 (18 entries); (KL, 27-60, 158)

TSIV'YAN, Ya.L., starshiy nauchnyy sotrudnik

Sliding splint for stretching the lower extremity in a horizontal plane. Ortrop.travm.i protez. 21 no.3:52-53 Mr '60. (MIRA 14:3)

1. Iz otdeleniya travmatologii i ortopedii (zav. - Ya.L.TSiv'yan) Novosibirskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent D.P. Metelkin).
(ORTHOPEDIC APPARATUS)

TSIV'YAN, Ya.L., starshiy nauchnyy sotrudnik

Osteotomy of the spine for correction of severe deformity following tuberculous spondylitis. Ortop., travm. i protez. no.10:73-76 '61. (MIRA 14:10)

1. Iz otdeleniya ortopedii i travmatologii (zav. - Ya.L. TSiv'yan) Novosibirskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii (dir. - dotsent D.P. Matelkin).
(SPINE--TUBERCULOSIS) (OSTEOTOMY)

TSIV'YAN, Ya. L.; RAMIKH, Ye. A.

Surgical fixation of the spine in uncomplicated compressive fractures of the corpus vertebrae. Preliminary report. Ortop., travm. i protez. no.12:48 '61. (MIRA 15:2)

(INTERNAL FIXATION IN FRACTURES)
(VERTEBRAE--FRACTURE)

TSIV'YAN, Ya.L., starshiy nauchnyy sotrudnik (Novosibirsk 99, ul. Uritskogo, d.23, kv.6)

Late results of all-arthroplasty of the hip joint in a patient with hip stump. Ortop.,travm.i protez. 22 no.3:63-64 '61. (MIRA 14:4)

1. Iz otdeleniya travmatologii i ortopedii (rukov, - Ya.L. TSiv'yan) Novosibirskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent D.P. Metelkin).

(AMPUTATION STUMP)

TSIV'YAN, Ya. L., doktor med. nauk (Novosibirsk 99, ul. Uritskogo, d. 23, kv. 6)

Transpleural and extraperitoneal surgical approaches in the treatment of tuberculous spondylitis. Ortop., travm. i protez. no.3:12-14 '62. (MIRA 15:6)

1. Iz otdeleniya ortopedii i travmatologii dlya vzroslykh (rukovoditel' - Ya. L. TSiv'yan) Novosibirskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent D. P. Metelkin)

(SPINE—TUBERCULOSIS) (PLEURA—SURGERY)
(PERITONEUM—SURGERY)

TSIV'YAN, Ya.L., doktor med. nauk (Novosibirsk 99, ul. Uritskogo, d.23,kv.6)

Obturator dislocation of the femur with fracture of the femoral neck. Ortop., travm. i protez. 24 no.3:51-52 Mr '63. (MIRA 17:2)

1. Iz otdeleniya travmatologii i ortopedii (rukovoditel' - Ya.L. TSiv'yan) Novosibirskogo instituta travmatologii i ortopedii (dir. - dotsent D.P. Metelkin).

TSIV'YAN, Ya.L., doktor med. nauk (Novosibirsk, 99, ul. Uritskogo, d.37. kv.86)

Some diseases of the spine, data from foreign literature. Ortop.,travm. i protez. 24 no.4:75-80 Ap'63. (MIRA 16:8)
(SPINE--DISEASES)

TSIV'YAN, Ya.L., doktor meditsinskikh nauk (Novosibirsk 99, ul. Uritskogo, d.37, kv.86)

Unusual case of osteochondrosis of the inferior thoracic intervetebral disk with compression of the spinal cord. Ortop., travm. i protez. 24 no.8:67-69 Ag '63. (MIRA 17:1)

1. Iz otdeleniya ortopedii i travmatologii dlya vzroslykh (rukovoditel' - Ya.L. TSiv'yan) Novosibirskogo instituta travmatologii i ortopedii (dir. - dotsent D.P. Metelkin).

TSIV'YAN, Ya.L., prof. (Novosibirsk 99, ul. Uritskogo, d.37, kv.86)

Surgical treatment of severe forms of kyphoscoliosis. Ortop., travm. i protez. 25 no.6:54-55 Je '64. (MIRA 18:3)

1. Iz Novosibirskogo instituta travmatologii i ortopedii (dir. - dotsent D.P. Metelkin).

TSIV'YAN, Ya.L., prof. (Novosibirsk 99, ul. Uritskogo, d. 37, kv.86)

Some problems of pathology of the spine; based on materials of foreign literature. Ortop., travm. i protez. 26 no.4:79-86 Ap '65. (MIRA 18:12)

TSIV'YAN, Ya.L., prof.

Is surgical intervention justified in the treatment of spinal fractures? Khirurgiia 40 no.5:20-28 My '64. (MIRA 18:2)

1. Otdeleniye travmatologii i ortopedii dlya vzroslykh Novosibirskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir.-dotsent D.P. Metelkin).

TSIV'YAN, L. YA.

19990 TSIV'YAN, L. YA. Peredvizhnoy mnogoskorostnoy elektroprivod dlya sel'skogo khozyaystva. /Avtoreferat/. Elektrichectvo, 1949, No. 6, s. 51-53.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

L 26059-66 EWT(m)/EWP(j) RM

ACC NR: AP5025130 SOURCE CODE: UR/0079/65/035/010/1819/1821

AUTHOR: Tsivunin, V. S.; Kamay, G. Kh.; Kormachev, V. V.

ORG: Kazan Chemical Engineering Institute imeni S. M. Kirov (Kazanskiy khimiko-tekhnologicheskiy institut)

TITLE: Aliphatic-aromatic oxides and phosphine thio oxides

SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1819-1821

TOPIC TAGS: Oxide formation, phosphorus chloride, halogenated organic compound, alkylphosphine, alkylphosphine oxide

ABSTRACT: One of the methods for obtaining oxides and thio oxides of phosphines is nucleophilistic decomposition of trialkyl(aryl)dihalogenophosphines. In order to obtain some examples of these types of compounds, the reaction of interaction of diethylchlorphosphine with benzoyl chloride and α-chlormethylnaphthalene was studied, since few similar reactions were described in the literature. It is known that trichloride phosphorus in the absence of third components does not react even with methyl iodide and dialkyl- and diarylchlorphosphines in ordinary conditions do not react with alkyl chlorides. Benzyl chloride and

Card 1/2 UDC: 546.181.1

L 26059-66

ACC NR: AP5025130

α-chloromethylnaphthalene are the exceptions in this relation, determined obviously by the presence of a conjugation. During their reaction with diethylchlorophosphine, after low termperature heating, white crystal adducts form which are extremely hydroscopic and smoke in the air. The ultimate analysis and quantity of hydrolyzed chlorine confirmed the structure of the adducts as of the diethylbenzyl- and diethyl-α-methylnaphthyl dichlorphosphines. Oxides and thio oxides of diethylbenzylphosphine and diethyl-α-methylnaphthylphosphine are derived by the decomposition of complexes, obtained by alchols and hydrogen sulfide.

SUB CODE: 07 / SUBM DATE: 30Oct64/ ORIG REF: 001/ OTH REF: 004

Card 2/2

TSIZIN, I.G.

PHASE I BOOK EXPLOITATION 941

Avtomatizatsiya energosistem i elektrostantsiy (Automatic Control in Power Systems and Electric Power Stations) Moscow, AN SSSR, 1957. 105 p. (Series: Obzory po novoy tekhnike. Seriya "Energetika") 5,000 copies printed.

Sponsoring Agencies: 1. Gosudarstvennoye izdatel'stvo tekhno-teoreticheskoy literatury; 2. Akademiya Nauk SSSR; 3. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii.

Ed.: Chuprakov, N.M.; Tech. Ed.: Shvetsov, M.P.

PURPOSE: This monograph is addressed to power engineers and technicians interested in problems and recent developments in the automation and telemechanization of electric power plants and power systems.

COVERAGE: This brochure is a survey of problems in the automation of power systems insofar as they concern the joint operation of the electric power plants constituting each system, and the operation of

Card 1/5

interconnected power systems. Problems in the telemechanization of dispatcher control of power systems and interconnected power systems are also examined. Technical solutions concerning the automation of technological processes and of control in thermal and hydro-electric power stations are also discussed. Problems in the automation and telemechanization of electrical networks have not been made the object of an indpendent survey. For this reason they are discussed at the same time with problems of power system automation, briefly in the section on distributing networks(transit interstation and intersystem electric transmission lines)and more extensively in connection with the basic circuits determining the operation of power systems and their combinations. No personalities are mentioned. There are 34 references, of which 19 are Soviet, 13 English, and 1 French.

Automatic Control in Power Systems (Cont.) 941

Bibliography 106

AVAILABLE: Library of Congress (TK1005.C52)

JP/ksv
12-5-58

Card 5/5

TSIZIN, S.G.

Shortcomings of technical equipment at new sugar factories. Sakh. prom. 33 no.12:18-21 D '59. (MIRA 13:4)
(Sugar machinery)

TSIZIN, S.G.

Raw material supply for sugar factories in Krasnodar Territory.
Sakh. prom. 32 no.4:12-15 Ap '58. (MIRA 11:6)
(Krasnodar Territory--Sugar beets)

TSIZIN, Ye.S.

Investigating the dynamic properties of the gas dryer for fabrics as a controllable object. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.3:159-166 '62. (MIRA 17:10)

1. Moskovskiy tekstil'nyy institut.

5(3)
AUTHORS: Tsizin, Yu. S., Tolkachev, O. N., Volkova, L. V., Preobrazhenskiy, N. A.

SOV/79-29-5-47/75

TITLE: Research in the Synthesis of Curare Alkaloids. (Sinteticheskiye issledovaniya v oblasti kurarealkaloidov). Synthesis of 2-Oxy-3-Methoxy-5-(β -Nitrovinyl)-4'-Carboxy Diphenyl Ether (Sintez 2-cksi-3-metoksi-5-(β-nitrovinil)-4'-karboksidifenilovogo efira)

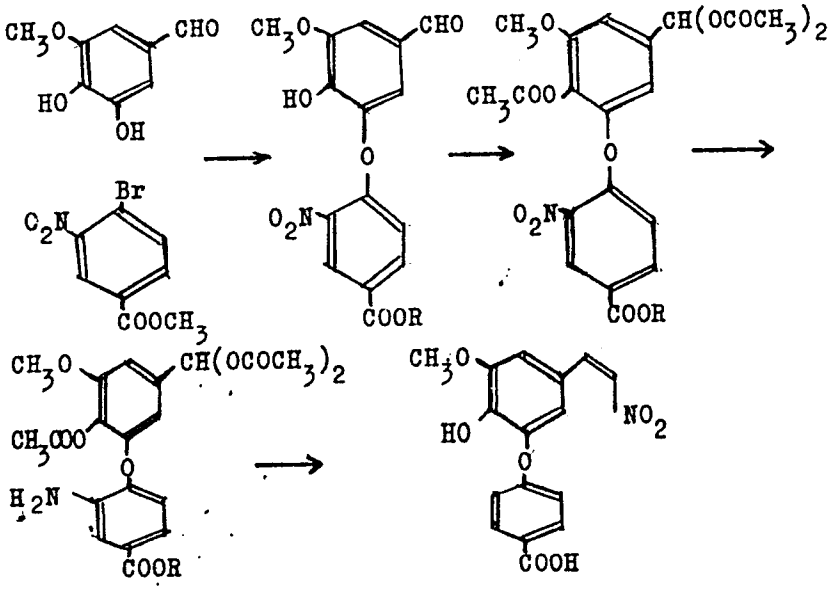
PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1631-1635 (USSR)

ABSTRACT: The compound was obtained in two ways: a) condensation of 5-bromo vanillin with methyl- or ethyl ester of 4-oxy-benzoic acid or b) condensation of 3-methyl-"gallus" aldehyde with the methyl ester of 4-bromo benzoic acid. In the reaction according to a) the ethyl ester is preferable as methyl ester leads to an impure product by the formation of anisic acid and its ester. In order to obtain better yields, a new course of synthesis was worked out:

Card 1/3

SOV/79-29-5-47/75

Research in the Synthesis of Curare Alkaloids. Synthesis of 2-Oxy-3-Methoxy-5-(β-Nitrovinyl)-4'-Carboxy Diphenyl Ether



Card 2/3

Research in the Synthesis of Curare Alkaloids. Synthesis of 2-Oxy-3-Methoxy-5-(β-Nitrovinyl)-4'-Carboxy Diphenyl Ether

SOV/79-29-5-47/75

The nitro group was reduced with nickel by catalysis, whereas the amino group was removed by reduction of diazonium salt with hypophosphoric acid. By reaction with nitro methane the compound mentioned in the title is obtained. The experimental part describes the reactions and gives the data concerning the compounds obtained. There are 4 references.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova (Moscow Institute of Fine Chemical Technology imeni Lomonosov)

SUBMITTED: May 5, 1958

Card 3/3

1. GIYELENS, Ye

2. USSR (600)

4. Linolenic Acid

7. Biosynthesis of linolenic acid in hen's eggs during incubation. Latv.PSR Zin.Akad. Vestis no.10 1950

9. Monthly List of Russian Accessions. Library of Congress. March 1953. Unclassified.

1. STOLIGVO, N., CIYELENS, YE., LAZDINA, V.

2. USSR (600)

4. Tuberculosis

7. Effect of diet on the course of experimental tuberculosis. Latv. PSR Zin. Akad. Vestis No. 11, 1950

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

TSIYELEN, E. A. -- "Biochemical Characteristics of Phosphatides and Choline and Their Content in Bean Seeds of the Latvian SSR." Latvian State U, 1949. In Latvian (Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Izvestiya Ak. Nauk Latviyskoy SSR, No. 9, Sept., 1955

TSIYELENS, E.A.

Change in the free choline content of preserved blood during storage.
Biokhimiia 19 no.6:693-697 N-D '54. (MLRA 8:5)

1. Respublikanskaya stantsiya perelivaniya krovi, Riga.
(CHOLINE, in blood,
preserv. blood)
(BLOOD BANKS,
preserved blood, choline in)

The influence of folic acid on resistance of the organism to tuberculosis [illegible] Stolyarov and R. Ozoliņa (Inst. Microbiol., Acad. Sci. Latv. S.S.R., Rīga). *Voprosy Pitaniya* 14, No. 2, 13–15 (1955).—On a prolonged feeding of a low-choline diet to white rats the natural resistance of the animals to tuberculosis was decreased. Addn. of folic acid to the diet (0.5 mg./100 g. feed) restored the resistance. The positive effect showed also the supplementary feeding of fresh lettuce 0.5 g. before and 10 g./rat/day after the infection with *Mycobacterium tuberculosis* var. *bovis*, resp.), while vitamin B_{12} (3 γ/100 g. feed) was without any definite effect. Folic acid and lettuce added to the daily rations increased the choline concn. in the liver and blood plasma of the animals; vitamin B_{12} increased the choline concn. in the liver only.

E. Wierbicki

TSIYELEN, M. Ia.

TSIYELEN, M. Ya. -- "Rivers of the Latvian SSR." Latvian State U, 1951. In Latvian (Dissertation for the Degree of Candidate of Geographical Sciences)

SO: Izvestiya Ak. Nauk Latviyskoy SSR, No. 9, Sept., 1955

TSIYELENS, E. [Cielens, E.]

Effect of antibiotics on the retention of choline in the digestive tract of chicks and pigs. Izv.AN Latv.SSR no.1:49-54 '64.
(MIRA 17:4)

1. Latviyskiy gosudarstvennyy universitet im. P.Stuchki.

USSR/General Problems of Pathology - Tumors. Metabolism. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4185

Author : Tsiyelens, E.A., Skarde, I.K.

Inst : Institute of Experimental Medicine, Academy of Sciences of Latvian SSR

Title : The Level of Free Choline in the Blood Serum of Cancerous Patients.

Orig Pub : Tr. In-ta eksperim. med. AN LatvSSR, 1956, 10, 209-214

Abstract : The content of free choline in the serum of 44 cancerous patients was within the limits of normal and approached the upper limit of normal in cancer of the stomach. -- T.A. Goryukhina

Card 1/1

TSIYELENS, E. A., VAINMAN, A. R., FELDMAN, A. YE., and STROZHKO, I. K. (USSR)

"Biological Role of Vitamin B_{12} in Nutrition of Farm Animals and Fowl."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

BASISTOV, M.A., inzh.; GRITSIK, V.I., inzh.; TSIYER, M.M., inzh.

Using mobile stone breakers for processing ballast. Transp. stroi. 9 no.2:36-40 F '59. (MIRA 12:5)
(Stone and ore breakers) (Ballast (Railroads))

BASISTOV, M.A., inzh.; TSIYER, M.M., inzh.

Mechanization of the boring of blast holes. Mekh.i avtom.proizv. 14 no.6:54-55 Je '60. (MIRA 13:7)
(Boring machinery--Technological innovations)

TSIYER, M.M., inzh.; DAVYDOV, S.A., inzh.

Method for calculating the blasting in excavating broad-profile cuts. Transp. stroi. 10 no.9:48-50 S '60. (MIRA 13:9)
(Blasting) (Railroads--Earthwork)

1. TSIYETLIN, I. M., Eng.

2. USSR (600)

4. Essences and essential oils

7. Control of essential oil losses in production, Masl. zhir. prom., 17, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

GORSHKOV, Andrey Andreyevich, doktor tekhn. nauk, prof.; TSIZIN, Bentsion Borisovich, inzh.; Dubrovskiy, Ye.V., red.; SAVCHENKO, Ye.V., tekhn. red.

[New developments in founding] Novoe v liteinom proizvodstve. Moskva, Izd-vo "Znanie," 1961. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.4, Tekhnika, no.17) (MIRA 14:11)

1. Chlen-korrespondent AN USSR (for Gorshkov).
(Founding)

TSIZIN, B.B.; NEIZHKO, I.G.

Further introduction of high-strength cast iron. Lit. proizv. no.3:37-38 Mr '64. (MIRA 18:9)

TSIZIN, B.B.; KLIBUS, V.V.

Cupola furnace with a basic lining. Nauch. trudy Inst. lit. proizv. AN URSR no.10:51-59 '61. (MIRA 15:6)
(Cupola furnaces)